

Date: Thu, 15 Jul 93 23:39:02 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #861
To: Info-Hams

Info-Hams Digest Thu, 15 Jul 93 Volume 93 : Issue 861

Today's Topics:

 Amateur Radio PR
 CW, CW everywhere!!!
 CW continued
 CW continued [long]
 Daily Solar Geophysical Data Broadcast for 15 July
 Handi-Finder anyone build?
 Hearing CW in strange places (was: Old Ham
 IARU Contest ???
 Intermod Analysis s/w ???
 KA7QJY Components?
 machine-generated CW (2 msgs)
 More SWR
 Opinions of Heathkit gear
 TS-50
 What does it take to fry coax???

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 15 Jul 93 11:15:45 EDT
From: psinntp!arrl.org@uunet.uu.net
Subject: Amateur Radio PR
To: info-hams@ucsd.edu

Fellow hams:

I guess we haven't done a good enough PR job on our PR!

Amateur Radio is getting its fair share of publicity (and more). I have mailed Robert Penrod (callsign?) a stack of clippings roughly 2 inches thick culled from papers around the country in the last few months. That's just a sample. I invite him to analyze them and report his findings here.

Last year, we (with the help of our PR firm) placed major stories on "CBS This Morning," "ABC Nightline", "NBC Overnight," AP Radio, ABC Radio and CNN.

In addition, we placed stories in nearly all major metro dailies, including the Chicago Tribune, the LA Times, the San Diego Union, the Detroit News, New York Newsday, the Miami Herald and the New York Daily News.

How about national newspapers? Well, we placed stories in the Wall Street Journal, USA Today and the New York Times. What's left?

Except for a few major stories (i.e. hams in Hurricane Andrew) Amateur Radio is a local story, as far as the news media is concerned.

More important, news is what reporters and editors say it is, NOT what WE say it is. So, we have developed a network of nearly a thousand local hams, at least half of whom are professionally employed by the media, to place Amateur Radio stories in their local papers and broadcast stations. It's working, and it's the key to our success.

But no matter how much good publicity we achieve, it won't do much good if the Amateur Radio community itself is not open and receptive to a public that doesn't know much about radio and has no incentive to learn.

So, whether or not you think we're doing a good job, I urge you to pitch in and help with your local Public Information Coordinator or Public Information Officer. E-mail me for his or her name and address. I'll put you in touch.

Ed Hare, KA1CV
American Radio Relay League
225 Main St.
Newington, CT 06111
(203) 666-1541 - voice
ARRL Laboratory Supervisor
RFI, xmtr and rcvr testing

ehare@arrl.org

"The goal of every engineer is to retire without getting blamed for a major catastrophe." -- Scott Adams and Dilbert

Date: Thu, 15 Jul 1993 17:38:51 GMT
From: pravda.sdsc.edu!news.cerf.net!usc!howland.reston.ans.net!darwin.sura.net!
sgiblab!sgigate!odin!chuck.dallas.sgi.com!adams@network.UCSD.EDU
Subject: CW, CW everywhere!!!
To: info-hams@ucsd.edu

In article <2240b3\$k8f@cville-srv.wam.umd.edu>, ham@wam.umd.edu (Scott
Richard ...stuff deleted...
> I started to consciously listen to the surroundings, and I heard this bird
> up in a tree going,
>
> "Tweet Tweet Tweet"
>
> So obviously I copied these as the letter "S." I've been doing too much
> CW, I guess. I was too ashamed to tell even my fiancée, who's a no-code
> Tech, and I thought I'd find some people who might even understand... :-)

yes, we understand and especially this close to field day. ;-)

>
> CU on 20 CW,
>
> Scott NF3I
>
> --
> 73,
> _____ The
> \ / Long Original
> Scott Rosenfeld Amateur Radio NF3I Burtonsville, MD
> | Live \$5.00
> WAC CW/SSB WAS 95% of the way to DXCC _____| Dipoles! Antenna!

What's this? a \$5.00 antenna for a \$3,000 radio. what's this world
coming to? my long wire cost \$12.00 with the ladder line. high \$\$s.

: -)
--

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

Date: Thu, 15 Jul 1993 20:11:25 GMT
From: elroy.jpl.nasa.gov!sdd.hp.com!col.hp.com!news.dtc.hp.com!srngenprp!
donrm@ames.arpa
Subject: CW continued
To: info-hams@ucsd.edu

Charles Adams (adams@chuck.dallas.sgi.com) wrote:

> first: the world record for the reception of morse is 75.2 wpm set by

I've asked this question a couple of years ago on this forum, and never
got any answers.

What limits a person's code-copying ability? Is it transducer (ears) or
processor (brain)? I've always been curious about this as I hit a brick
wall at about 50 wpm, where it begins to sound like so much rtty.

I've always entertained the idea it was in the ears (of course, there's
nothing wrong with my brain!), where the limit is reached by the Q of the
eardrum. In other words, it "rings" with the incoming wave train and runs
one pulse train into another. Maybe I could lower the Q of my eardrums by
not cleaning my ears so often.

Seriously, If this is the fact, wouldn't it be possible to raise copying
ability by sending a few cycles of "reverse burst" (sorry, Motorola) to
condition the eardrum for the next wave train at the end of the last? If
this works, you heard it here first...

Don Montgomery, K6LTS
donrm@sr.hp.com

Date: Thu, 15 Jul 1993 21:07:48 GMT
From: olivea!sgigate!odin!chuck.dallas.sgi.com!adams@decwrl.dec.com
Subject: CW continued [long]
To: info-hams@ucsd.edu

In article <CA82r2.HuI@srngenprp.sr.hp.com>, donrm@sr.hp.com (Don Montgomery)
writes:

...stuff deleted...

|> What limits a person's code-copying ability? Is it transducer (ears) or
|> processor (brain)? I've always been curious about this as I hit a brick
|> wall at about 50 wpm, where it begins to sound like so much rtty.

|>
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|> nothing wrong with my brain!), where the limit is reached by the Q of the
|> eardrum. In other words, it "rings" with the incoming wave train and runs

|> one pulse train into another. Maybe I could lower the Q of my eardrums by
|> not cleaning my ears so often.
|>
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|> ability by sending a few cycles of "reverse burst" (sorry, Motorola) to
|> condition the eardrum for the next wave train at the end of the last? If
|> this works, you heard it here first...
|>
|> Don Montgomery, K6LTS
|> donrm@sr.hp.com
|>
|>

limit is probably the ear(s). i'm 6'6" tall and have been since i was
in the eighth grade. went i went to doctors for checkups, the first thing
they check is your ears. EVERY doctor i went to said, "My, what small
ear canals you have". i can still hear sonic motion detectors sometimes
in some shops. i know that i used to have an exceptional upper freq limit.
used to bug the ear doctors when they'd put the earphones on me and run
the frequency up and down.

i do not listen to music, tv, or listen to cw at high volumes. maybe
paranoid or just too sensitive. walked out of a Kiss Concert one time, 1971?
i was 3/4 of the way back from the stage in a large coliseum and after
5 minutes i was in pain. took me two days for my ears to quit ringing. :-)
i, seriously, could not hear anything for three hours.

Don, i'd guess you'd want the Q to be high, otherwise your sensitivity would
be low and it would take a higher volume to drive the eardrum and get it
to move sooner. how can you control the phasing of audio in mono?

i posted this once before and i'm sure that everybody in the world thought
i was/am crazy. take a small point source, say cheap earphone. you know
the kind that you stick in your ear. put it two feet away in front of me.
output steady tone. when the earphone is DIRECTLY in front of me, i.e.
equal angle to both ears, the tone disappears. there seems to be a 180
degree phasing (problem) between my right and left ear.

i don't mind cranking the tone up to 1,000 Hz to listen to cw. note that
it bugs a lot of people who consider it too high.

someone else asked about age on speed. well, i don't think it's that
critical as in athletics. most of the high speed critters are OFs and
i think it's just practice. when you get old, you don't have anything
else to do. :-) speed is proportional to the number of hours listening?

i've got to collect all this stuff and write a book..... :-)

thanks for listening to my ramblings, 73 de k5fo dit dit

N9VV, where are you? HELLLPPPPPPP..... they think i'm crazy. :-)

--

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

Date: 16 Jul 93 06:26:22 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 15 July
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 196, 07/15/93
10.7 FLUX=093.2 90-AVG=109 SSN=102 BKI=0310 0102 BAI=003
BGND-XRAY=A9.5 FLU1=7.1E+05 FLU10=1.3E+04 PKI=2321 2223 PAI=007
BOU-DEV=004,026,005,003,004,005,004,019 DEV-AVG=008 NT SWF=00:000
XRAY-MAX= B2.5 @ 0749UT XRAY-MIN= A7.5 @ 2030UT XRAY-AVG= B1.1
NEUTN-MAX= +003% @ 1105UT NEUTN-MIN= -002% @ 0455UT NEUTN-AVG= +0.1%
PCA-MAX= +0.2DB @ 1625UT PCA-MIN= -0.8DB @ 2125UT PCA-AVG= -0.1DB
BOUTF-MAX=55377NT @ 1350UT BOUTF-MIN=55347NT @ 1803UT BOUTF-AVG=55366NT
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:-000NT@ 0000UT G7-AVG=+079,+000,+000
GOES6-MAX=P:+128NT@ 1725UT GOES6-MIN=N:-060NT@ 2324UT G6-AVG=+105,-017,-044
FLUXFCST=STD:095,095,090;SESC:095,095,090 BAI/PAI-FCST=005,005,010/010,010,010
KFCST=1112 1111 1122 1111 27DAY-AP=002,005 27DAY-KP=1010 1**2 1221 2221
WARNINGS=
ALERTS=
!!END-DATA!!

NOTE: The Effective Sunspot Number for 14 JUL 93 was 45.0.
The Full Kp Indices for 14 JUL 93 are: 2- 2- 2- 2- 1o 1+ 1+ 2o

Date: 16 Jul 93 02:57:18 GMT
From: bloom-beacon.mit.edu!mojo.eng.umd.edu!tedwards@uunet.uu.net
Subject: Handi-Finder anyone build?
To: info-hams@ucsd.edu

I am curious what kind of results people have had with the
"handi-finder" from QST a couple of months ago. I have mine
basically working, but I haven't been able to do a real
fox-hunt style test on it yet.

I wonder if the bow tie arrangement could be changed to increase the amplitude of the apparent audio signal from the oscillator, and to increase the signal received by the antenna, because weak signals don't appear to be easily DF'ed using the system.

-Thomas
N3HAU

Date: 15 Jul 1993 13:22:06 -0400
From: dorsai.dorsai.org!dorsai.dorsai.org!not-for-mail@uunet.uu.net
Subject: Hearing CW in strange places (was: Old Ham
To: info-hams@ucsd.edu

-=> In a message to All on 07-14-19 14:49, Craigs07-14-19 14:49seg.ti.com said: <=-

Cr> I've often thought I've heard CW in the surround sound channels when
Cr> watching CNN (and several other cable channels).....

You're not crazy. Tone modulated morse ID's are used on a subcarrier over satellite transmissions to identify the uplink. You are a victim of some sort of crosstalk, that's all.

Cr> But then again, I hear voices in the air condition fan motor :)

I think its time you had the berings greased.

... Klingons have Ridges
___ Blue Wave/QWK v2.12

Steve Coletti A/K/A "BIG STEVE COLE" Studio Line: (212) 995-2637
* Host of CROSSBAND, The news and information program for the *
* Radio, Communications and Computer Hobbist. *
Tuesdays by Satellite on Let's Talk Radio - S3/T21@5.8Mhz 10PM ET
*GEnie: S.COLETTI2 PRODIGY: BJJM02A FIDO: Big Steve 1:278/712 *
Internet: bigsteve@dorsai.dorsai.org P.O. Box 396, NY, NY 10002

Date: Thu, 15 Jul 1993 20:45:15 GMT
From: news.kpc.com!kpc!nat@decwrl.dec.com
Subject: IARU Contest ???
To: info-hams@ucsd.edu

Speaking of the contest. What is the date for the contest. Since I live in San Jose California what is my IRAU region 6, 7, or 8. I looked up the April QST and it said the contest was July 10th in which case this question is moot.

Thanks in advance.

Nat.

--

Natarajan Gurumoorthy AB6SJ Kubota Pacific Computer, Inc.
nat@kpc.com 2630 Walsh Avenue
Phone 408 987 3341 Santa Clara, California 95051.

Date: Thu, 15 Jul 1993 21:02:44 GMT
From: swrinde!gatech!howland.reston.ans.net!darwin.sura.net!sgiblab!sgigate!sgi!
wdl1!scf16!andres@network.UCSD.EDU
Subject: Intermod Analysis s/w ???
To: info-hams@ucsd.edu

Rec.radio.???

Newsgroup readers - I am after the formula, which will be translated into software which can tell me if two RF frequencies have intermod analysis problems.

Why? On a project in which I am working we have an electronically tunable transceiver, within a 6 Mhz channel, 500-612 and 612-800. Given that I can give the radio a starting pt, we had a consultant who said that we could use 7 frequencies within the 6 Mhz television channel without having intermod analysis problems. According to the consultant, one the 8th was chosen, it would have resulted in intermod problems.

Not being the radio type, I am grateful for any help in this area. I'd prefer email direct to jandres@scf16.scf.loral.com.

Thanks.

--

Jeff Andres --- Loral Space and Range Systems
--- 1260 Crossman Ave. MS-S37
e-mail: andres@scf16.scf.loral.com --- Sunnyvale, California 94089

Date: Thu, 15 Jul 1993 17:32:04 GMT
From: pravda.sdsc.edu!news.cerf.net!usc!math.ohio-state.edu!darwin.sura.net!

sgiblab!sgigate!odin!chuck.dallas.sgi.com!adams@network.UCSD.EDU

Subject: KA7QJY Components?

To: info-hams@ucsd.edu

...stuff deleted...

|> 20 meter Superhet transceiver \$49.95, From Jan. QRP Quarterly, anyone have
|> any info on this?

...more stuff gone...

|> Shipping \$3.75 per order, make check payable to Danny Stevig.

|>

|> Don't work for him just a satisfied customer!

|>

|> Jeff Jones

|> --

|> Jeff Jones AB6MB | OPPOSE THE NORTH AMERICAN FREE TRADE AGREEMENT!

|> jeffj@seeker.mystic.com | Canada/USA Free Trade cost Canada 400,000 jobs.

|> Infolinc BBS 415-778-5929 | Want to guess how many we'll lose to Mexico?

the transceiver in the january 1993 QQ looked very good, at least as shown in the photographs and in the schematics. i'd think the \$49.95 price, assumming this is components and boards without case and associated hardware such as jacks, PL-259, etc. is very reasonable. the rig is qsk without relay and uses 2SC799 as final, so it'll do ok on power out, say 3 or so watts. the article used two boards. does Danny's kit?

i was looking at the article last night. the receiver and transmitter looked at lot like the new MXM rig which Bruce Williams, WA6IVC has been working on the during the last year.

i'll fax to Danny and get more details and bring the article tomorrow in QQ for details. thanks Jeff for the note on Danny. knew that he was moving etc. but hadn't heard anymore. wonder if he'll be able to get rf outta the valley there. nice quite place, in fact wouldn't mind living there myself, but i'll be the winters are hell on wheels. ;-)

from the warm south,

dit dit

--

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60

adams@sgi.com

Date: Thu, 15 Jul 1993 20:47:15 GMT

From: olivea!sgigate!odin!chuck.dallas.sgi.com!adams@decwrl.dec.com
Subject: machine-generated CW
To: info-hams@ucsd.edu

In article <742747133snx@skyld.tele.com>, jangus@skyld.tele.com (Jeffrey D. Angus) writes:

...stuff deleted...

|> One of my pastimes (asides from starting flamewars) is sending
|> CW with the Vibroplex to the KAM. It takes quite a bit of practice
|> to get your fist solid enough to get the text on the screen to
|> match what you *thought* you sent.
|>
|> Using a bug is an art. Adjusting it correctly takes patience.
|>
|> And I do have a friend (he's responsible for my getting licensed)
|> who purposely sends poorly. "It keeps me from having to talk to
|> 'codeless CB types' and thier KAMs." But he's a bit too rabid about
|> recent changes in our hobby.
|>
|> 73 es Gm from Jeff
|>
|> J. Angus: jangus@skyld.tele.com -- "Als ik Kan", Gustav Stickley
|> US Mail: PO Box 4425 Carson, CA 90749-4425 1 (310) 324-6080

got the June QST handy. from the ads:

Microcraft Corporation the Code Scanner \$189 and Code Start \$139-kit \$179-
wired each rates 3-70 wpm automatic speed tracking

Kantronics KAM Plus (no specs no price one ad - Radio Center)
KAM (\$289 for all mode TNC - Texas Towers)

and it seems to be there may others in other issues that have systems
for receiving CW.

all owners of same. send me email. how good do you find them to
be? adjustable bandpass? do you use DSP with the critter? i won't
tell i promise.

i'd guess that during FD and SS, they are useless at any speed. :-)
it's hard enough just for a human being!

it'd be interesting to have a standard test set of conditions to compare
how each operates with QRM and QRN combinations and how well a human
being does. say at 30wpm?

i like Jeff's idea of sending to one to get his spacing, etc. correct.
might become a requirement before getting on the air! how about a

driving test every two years or so?

: -)

73 de k5fo dit dit

p.s. i do not claim to know a lot about cw. i just use it. call me an
appliance operator for the mode. i do build my own equipment.

--

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60
adams@sgi.com

Date: Thu, 15 Jul 93 14:38:53 GMT
From: csus.edu!netcom.com!netcomsv!bongo!skyld!jangus@decwrl.dec.com
Subject: machine-generated CW
To: info-hams@ucsd.edu

In article <29437@ksr.com> jfw@ksr.com writes:

> I've heard some "swings" that would curl your feedline :-).
> (And bugs, UGH! 10WPM dahs and a plethora of 35WPM dits...)

One of my pastimes (asides from starting flamewars) is sending
CW with the Vibroplex to the KAM. It takes quite a bit of practice
to get your fist solid enough to get the text on the screen to
match what you *thought* you sent.

Using a bug is an art. Adjusting it correctly takes patience.

And I do have a friend (he's responsible for my getting licensed)
who purposely sends poorly. "It keeps me from having to talk to
'codeless CB types' and thier KAMs." But he's a bit too rabid about
recent changes in our hobby.

73 es Gm from Jeff

J. Angus: jangus@skyld.tele.com -- "Als ik Kan", Gustav Stickley
US Mail: PO Box 4425 Carson, CA 90749-4425 1 (310) 324-6080

Date: Thu, 15 Jul 1993 19:23:37 GMT

From: elroy.jpl.nasa.gov!swrinde!sdd.hp.com!col.hp.com!news.dtc.hp.com!srigenprp!
alanb@ames.arpa
Subject: More SWR
To: info-hams@ucsd.edu

Jim Garver (zardoz@ornews.intel.com) wrote:
: In article <930714105128.cb5@MAR65.MAR.ORA.FDA.GOV>
ODONNELL@MAR65.MAR.ORA.FDA.GOV writes:

: Does this have anything to do with the impedance of free space,
: 377 ohms/meter? Why not extend the maximum transfer of power theorem
: beyond the transmitter-antenna system right out into the "Ether"?
: Is a 300 ohm folded dipole for the 2 meter band a closer match to free
: space?

No. You can think of an antenna as a transformer that "matches" the
377-ohm free space impedance to whatever impedance your transmission
line is. So long as your transmission line matches the radiation
resistance of the (resonant) antenna, you are not losing anything.

AL N1AL

Date: 15 Jul 93 22:56:38 GMT
From: ogicse!uwm.edu!csd4.csd.uwm.edu!pachner@network.UCSD.EDU
Subject: Opinions of Heathkit gear
To: info-hams@ucsd.edu

I have been looking at HF rigs and it seems that there are a lot of Heathkit
rigs available at this time. Does anyone have any advice or opinions on these
units?

--

=====

Thomas Jay Pachner -- Music Major, Bassist, and Amateur Operator (soon)
University of Wisconsin - Milwaukee - pachner@csd4.csd.uwm.edu
Amateur Call Sign: Somewhere between Milwaukee and Gettysburg

Date: 15 Jul 93 12:52:35 EDT
From: agate!howland.reston.ans.net!darwin.sura.net!sgiblab!wetware!
spunky.RedBrick.COM!psinntp!psinntp!arrl.org@ames.arpa
Subject: TS-50
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, G.POLDER@CPRO.AGRO.NL writes:

>Is it true that the TS-50 draws 2 A at receive?

No. It's less than 1 A (with a 13.8-V power supply) at normal audio-output levels and with the display backlight at full intensity.

--73, Rus

Rus Healy, NJ2L rhealy@arrl.org
Senior Assistant Technical Editor, QST Tel 203-666-1541
ARRL, 225 Main St, Newington CT 06111-1494 Fax 203-665-7531
1.8 through 3456 MHz -- and climbing!

Date: 15 Jul 1993 18:09:33 GMT
From: haven.umd.edu!cville-srv.wam.umd.edu!ham@ames.arpa
Subject: What does it take to fry coax???
To: info-hams@ucsd.edu

Honestly, all you need to do is the following:

Heat pan to about 350 degrees, using medium heat and vegetable oil.
Cut up the coax into 6 inch long segments, and toss into fry pan.
Turn frequently until outer insulation is tender.

Reduce heat to a simmer, and cover. Continue to cook 1 minute for each 1/4 inch thickness of cable.

Twinaxial cable takes approximately the same time, while double-shielded cable may take 50 percent longer.

The above directions are for solid center conductor, with foam insulation and braided shielding. Other insulations (poly, teflon) will work but tend to give the coax a very firm texture, as opposed to the tender texture of foam.

Can be served as a side dish, with butter/margarine or cheese.

Scott NF3I

--

73,

----- The
 \ / Long Original

Scott Rosenfeld Amateur Radio NF3I Burtonsville, MD | Live \$5.00

WAC CW/SSB WAS 95% of the way to DXCC _____| Dipoles! Antenna!

Date: 15 Jul 1993 17:44:41 GMT
From: pravda.sdsc.edu!news.cerf.net!usc!howland.reston.ans.net!noc.near.net!
news.bbn.com!bbn.com!levin@network.UCSD.EDU
To: info-hams@ucsd.edu

References <29437@ksr.com>, <1993Jul14.221652.7716@nntpd2.cxo.dec.com>,
<CA7s9p.4Lr@odin.corp.sgi.com>ws.bb
Subject : Re: machine-generated CW

adams@chuck.dallas.sgi.com (Charles Adams) writes:

|i have noted a large, and i do mean LARGE, number of individuals sending
|CQ CQ CQ DE CALL CALL CALL <kn>
|
|and do you know what? sure enough, nobody comes back to them. ;-)

I almost never use <KN>, just K. Maybe some time in a big net or if
I'm DX I'll find it useful . . . and probably half the people on the
air will ignore the intent anyhow.

/JBL

=

Nets: levin@bbn.com | "GO TO JAIL. Go directly to jail. Do not pass
POTS: (617)873-3463 | Go. Do not collect \$200."
KD1ON (@KB4N.NH.USA) | -- Parker Brothers

End of Info-Hams Digest V93 #861
